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AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-02-29-106** **Date: 24/12/2019**

: Improvements and Balance Works to Ambedkar Bhavana in Ward No.04 of Yelahanka Satellite Town Sub Division

: Executive Engineer KRIDL Bangalore

: EE(Project)/Ynk Zone/WO/70/2019-20

: 28-11-19

: PCC for Basement

: 150X150X150 mm

: M20 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 24/12/2019

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| PCC for Basement | M20 | 26/11/2019 | 24/12/2019 | 150.05 X 151.85 X 150.74 | 22786 | **8.940** | 538.3 | 23.6 | 23.3 |
| PCC for Basement | M20 | 26/11/2019 | 24/12/2019 | 150.86 X 149.68 X 149.10 | 22581 | **8.485** | 510.6 | 22.6 | |
| PCC for Basement | M20 | 26/11/2019 | 24/12/2019 | 151.21 X 151.17 X 151.17 | 22859 | **8.773** | 540.7 | 23.7 | |

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

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**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**

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# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/12/2019

: CP-2020-02-29-106

: Improvements and Balance Works to Ambedkar Bhavana in Ward No.04 of Yelahanka Satellite Town Sub Division

: Executive Engineer KRIDL Bangalore

: EE(Project)/Ynk Zone/WO/70/2019-20

: 28-11-19

: PCC for Basement

: 150X150X150 mm

: M20 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 03/12/2019

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| | M20 | 26/11/2019 | 03/12/2019 | 150.87 X 149.50 X 150.09 | 22555 | **8.225** | 422.8 | 18.7 | 18.5 |
| | M20 | 26/11/2019 | 03/12/2019 | 150.81 X 149.93 X 149.67 | 22612 | **8.873** | 411.1 | 18.2 | |
| | M20 | 26/11/2019 | 03/12/2019 | 150.68 X 151.04 X 150.56 | 22759 | **8.171** | 424.5 | 18.7 | |

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Authorized Signatory
Quality Manager

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore



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# TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-02-29-106** **Date: 24/12/2019**

: Improvements and Balance Works to Ambedkar Bhavana in Ward No.04 of Yelahanka Satellite Town Sub Division

: Executive Engineer KRIDL Bangalore

: EE(Project)/Ynk Zone/WO/70/2019-20

: 28-11-19

: PCC for Basement

: 150X150X150 mm

: M20 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 24/12/2019

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| PCC for Basement | M20 | 26/11/2019 | 24/12/2019 | 149.98 X 149.43 X 150.70 | 22412 | **8.940** | 535.4 | 23.9 | 23.2 |
| PCC for Basement | M20 | 26/11/2019 | 24/12/2019 | 150.34 X 149.83 X 150.59 | 22525 | **8.485** | 508.9 | 22.6 | |
| PCC for Basement | M20 | 26/11/2019 | 24/12/2019 | 150.42 X 151.13 X 151.68 | 22733 | **8.773** | 525.8 | 23.1 | |

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Project Division
Yelahanka Zone
Bangalore

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**Quality Manager**


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: CP-2020-02-29-106 **Date: 03/12/2019**

: Improvements and Balance Works to Ambedkar Bhavana in Ward No.04 of Yelahanka Satellite Town Sub Division

: Executive Engineer KRIDL Bangalore

Reference : EE(Project)/Ynk Zone/WO/70/2019-20

: 28-11-19

: PCC for Basement

: 150X150X150 mm

: M20 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 03/12/2019

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Basement | M20 | 26/11/2019 | 03/12/2019 | 150.70 X 151.15 X 149.78 | 22779 | **8.225** | 428.5 | 18.8 | 18.8 |
| Basement | M20 | 26/11/2019 | 03/12/2019 | 151.02 X 151.08 X 150.18 | 22816 | **8.873** | 433.4 | 19.0 | |
| Basement | M20 | 26/11/2019 | 03/12/2019 | 151.53 X 150.53 X 151.30 | 22809 | **8.171** | 427.0 | 18.7 | |

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Yelahanka Zone
Bangalore

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**Quality Manager**



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# TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-02-29-106 **Date: 24/12/2019**

: Improvements and Balance Works to Ambedkar Bhavana in Ward No.04 of Yelahanka Satellite Town Sub Division

: Executive Engineer KRIDL Bangalore

: EE(Project)/Ynk Zone/WO/70/2019-20

: 28-11-19

: PCC for Basement

: 150X150X150 mm

: M20 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 24/12/2019

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| PCC for Basement | M20 | 26/11/2019 | 24/12/2019 | 151.65 X 149.99 X 150.02 | 22746 | **8.940** | 536.7 | 23.6 | 23.1 |
| PCC for Basement | M20 | 26/11/2019 | 24/12/2019 | 149.17 X 149.14 X 149.06 | 22247 | **8.485** | 496.2 | 22.3 | |
| PCC for Basement | M20 | 26/11/2019 | 24/12/2019 | 150.97 X 151.05 X 151.27 | 22804 | **8.773** | 536.5 | 23.5 | |

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Quality Manager

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Bangalore

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# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| | : CP-2020-02-29-106 | Date: 03/12/2019 |
| Name | : Improvements and Balance Works to Ambedkar Bhavana in Ward No.04 of Yelahanka Satellite Town Sub Division | |
| | : Executive Engineer KRIDL Bangalore | |
| 's Reference | : EE(Project)/Ynk Zone/WO/70/2019-20 | |
| Receipt | : 28-11-19 | |
| ID | : PCC for Basement | |
| Type /Size | : 150X150X150 mm | |
| grade/Age | : M20 / 7 Days Compressive Strength | |
| to BIS codes | : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 | |
| Test | : 03/12/2019 | |

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| PCC for Basement | M20 | 26/11/2019 | 03/12/2019 | 151.15 X 151.42 X 151.36 | 22887 | **8.225** | 419.3 | 18.3 | 18.7 |
| PCC for Basement | M20 | 26/11/2019 | 03/12/2019 | 151.03 X 149.03 X 151.91 | 22508 | **8.873** | 422.6 | 18.8 | |
| PCC for Basement | M20 | 26/11/2019 | 03/12/2019 | 149.38 X 151.49 X 150.56 | 22631 | **8.171** | 429.4 | 19.0 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| **ID** | : | **CP-2020-02-29-106** **Date: 24/12/2019** |
| **ect Name** | : | Improvements and Balance Works to Ambedkar Bhavana in Ward No.04 of Yelahanka Satellite Town Sub Division |
| **ncy** | : | Executive Engineer KRIDL Bangalore |
| **mer's Reference** | : | EE(Project)/Ynk Zone/WO/70/2019-20 |
| **of Receipt** | : | 28-11-19 |
| **mer ID** | : | PCC for Basement |
| **ple Type /Size** | : | 150X150X150 mm |
| **ple grade/Age** | : | M20 / 28 Days Compressive Strength |
| **rence to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| **of test** | : | 24/12/2019 |

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| PCC for Basement | M20 | 26/11/2019 | 24/12/2019 | 150.18 X 151.57 X 150.38 | 22763 | **8.940** | 526.2 | 23.1 | 22.8 |
| PCC for Basement | M20 | 26/11/2019 | 24/12/2019 | 149.99 X 149.44 X 151.24 | 22415 | **8.485** | 495.2 | 22.1 | |
| PCC for Basement | M20 | 26/11/2019 | 24/12/2019 | 150.79 X 149.44 X 151.21 | 22534 | **8.773** | 519.8 | 23.1 | |

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**Quality Manager**

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Bangalore

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# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/12/2019

: CP-2020-02-29-106

Name : Improvements and Balance Works to Ambedkar Bhavana in Ward No.04 of Yelahanka Satellite Town Sub Division

: Executive Engineer KRIDL Bangalore

er's Reference : EE(Project)/Ynk Zone/WO/70/2019-20

Receipt : 28-11-19

ner ID : PCC for Basement

Type /Size : 150X150X150 mm

grade/Age : M20 / 7 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Test : 03/12/2019

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| PCC for Basement | M20 | 26/11/2019 | 03/12/2019 | 149.55 X 149.20 X 150.72 | 22313 | **8.225** | 405.6 | 18.2 | 18.6 |
| PCC for Basement | M20 | 26/11/2019 | 03/12/2019 | 149.88 X 149.13 X 150.70 | 22351 | **8.873** | 423.8 | 19.0 | |
| PCC for Basement | M20 | 26/11/2019 | 03/12/2019 | 150.49 X 150.88 X 150.72 | 22706 | **8.171** | 424.0 | 18.7 | |

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Project Division
Yelahanka Zone
Bangalore

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# TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-02-29-106**

**Name** : Improvements and Balance Works to Ambedkar Bhavana in Ward No.04 of Yelahanka Satellite Town Sub Division **Date: 24/12/2019**

: Executive Engineer KRIDL Bangalore

**ner's Reference** : EE(Project)/Ynk Zone/WO/70/2019-20

**f Receipt** : 28-11-19

**mer ID** : PCC for Basement

**e Type /Size** : 150X150X150 mm

**e grade/Age** : M20 / 28 Days Compressive Strength

**nce to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**f test** : 24/12/2019

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| PCC for Basement | M20 | 26/11/2019 | 24/12/2019 | 149.57 X 151.99 X 149.55 | 22733 | 8.940 | 542.5 | 23.9 | 23.2 |
| PCC for Basement | M20 | 26/11/2019 | 24/12/2019 | 151.72 X 151.32 X 150.15 | 22958 | 8.485 | 511.8 | 22.3 | |
| PCC for Basement | M20 | 26/11/2019 | 24/12/2019 | 151.63 X 150.20 X 150.08 | 22774 | 8.773 | 531.1 | 23.3 | |

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Certificate No.: TC-5548

# TEST RESULTS FOR CHAIN LINK FENCING

**Lab ID** : **CP-2020-02-29-106**

**Project Name** : Improvements and Balance Works to Ambedkar Bhavana in Ward No.04 of Yelahanka Satellite Town Sub Division

**Date: 25-11-19**

**Agency** : Executive Engineer KRIDL Bangalore

**Customer's Reference** : EE(Project)/Ynk Zone/WO/70/2019-20

**Date of Receipt** : 23-11-19

**Type of Sample** : Chain Link Fencing

**Reference to BIS codes** : IS 2062:2011

**Date of testing** : 23-11-19

| TESTS RESULT FOR WIRE MESH | | |
|---|---|---|
| **SL.NO** | **Description** | **Result** |
| 1 | Average Thickness in mm | 4.04 |
| 2 | Dia of linewire in mm | 3.14 |
| 3 | Mesh size in mm | 50.01 |
| 4 | Nominaldia of meshwire in mm | 2.52 |
| 5 | Bend Test | Satisfactory |

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

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**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**


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GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

# TEST RESULTES FOR MS RECTANGULAR POLE

**Date: 23-11-19**

: **CP-2020-02-29-106**

**Name** : Improvements and Balance Works to Ambedkar Bhavana in Ward No.04 of Yelahanka Satellite Town Sub Division

: Executive Engineer KRIDL Bangalore

**er's Reference** : EE(Project)/Ynk Zone/WO/70/2019-20

**Receipt** : 20-11-19

**f Sample** : M.S Rectangular Pole(65X65X6)mm

**nce to BIS codes** : IS:1608-2005(RA 2011), IS 1599-2012.

**f testing** : 20-11-19

**ESTS RESULTS FOR M.S RECTANGULAR POLES MADE OUT OF 2 EQUAL ANGLES OF 65 X 65 X 6 MM WELDED TOGETHER**

| | Description | Result | Required as per IS Code 2062:2011 | Remarks |
|---|---|---|---|---|
| | Weight/Meter (Kg /m) | 5.81 | 5.8 Kg/m | Satisfactory |
| | Yeild stress (N/mm2) | 278 | 250N/mm$^2$ | Satisfactory |
| | Tensile Strength (N/mm2) | 485 | 410N/mm$^2$ | Satisfactory |
| | Elongation Percentage (%) | 23.5 | Min23% | Satisfactory |
| | Bend Test | Satisfactory | Should not Crack or fracture | Satisfactory |

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Asst. Executive Engineer
Project Division
Yelahanka Zone

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Authorized Signatory
**Quality Manager**



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